

## FIGURE 1

## FIGURE 2

CV-1/UBNA  
DMEM serum free  
bioreactors

YM10 Spiral cartridge conic.

add ammonium sulfate  
HEPES pH 8.5  
Phenyl Sepharose CL-4B  
0.2M ammonium sulfate  
20 mM HEPES pH 8.5  
elute with 10mM HEPES pH 8.5

add NaCl to 1.6 mS/cm

DIAE Sephadex  
10mM HEPES pH 8.5  
0.14 to 0.3 M NaCl gradient

dilute to 1.2 mS/cm

MonQ  
10mM HEPES pH 8.5  
0.1 to 0.5 M NaCl gradient

FIGURE 3

HPLC C4 reverse phase (Y��ac, 46 X25 cm, 5u)  
0.1% TFA to 0.1% TFA/100% AcN, 1ml/min

0 to 45% AcN 1%/min  
45-60% AcN 0.5%/min  
60-100% AcN 2%/min

HPLC C4 reverse phase (Y��ac, 46 X25 cm, 5u)  
0.1% TFA to 0.1% TFA/60% n-propanol  
0.5ml/min  
0.5%/min gradient

SDS PAGE, 14%, reducing

PyDF  
N-terminal protein sequence

#### FIGURE 4

FIGURE 5

1 MRISKPHLRSISIQCXLCLLNSHFLTEAGIIVFLGCFSAAGLPLKTEANW 50  
1 MRISKPHLRSISIQCXLCLLKSHEFLTEAGIIVFLGCFSAAGLPLKTEANW 50  
51 VNVISDLKKIEDLIQMIDATLYTESDVIPSCKVTA MKCFLLELQVISL 100  
51 VNVISDLKKIEDLIQMIDATLYTESDVIPSCKVTA MKCFLLELQVISH 100  
101 ESGDASIINDTVENLILANNSSNGNNTESGCCKECEELEEKNIKEFLQS 150  
101 ESGDASIINDTVENLILANNSSNGNNTESGCCKECEELEEKNIKEFLQS 150  
151 FVIIIVQMFIINTS\* 163  
151 FVIIIVQMFIINTS\* 163

FIGURE 6

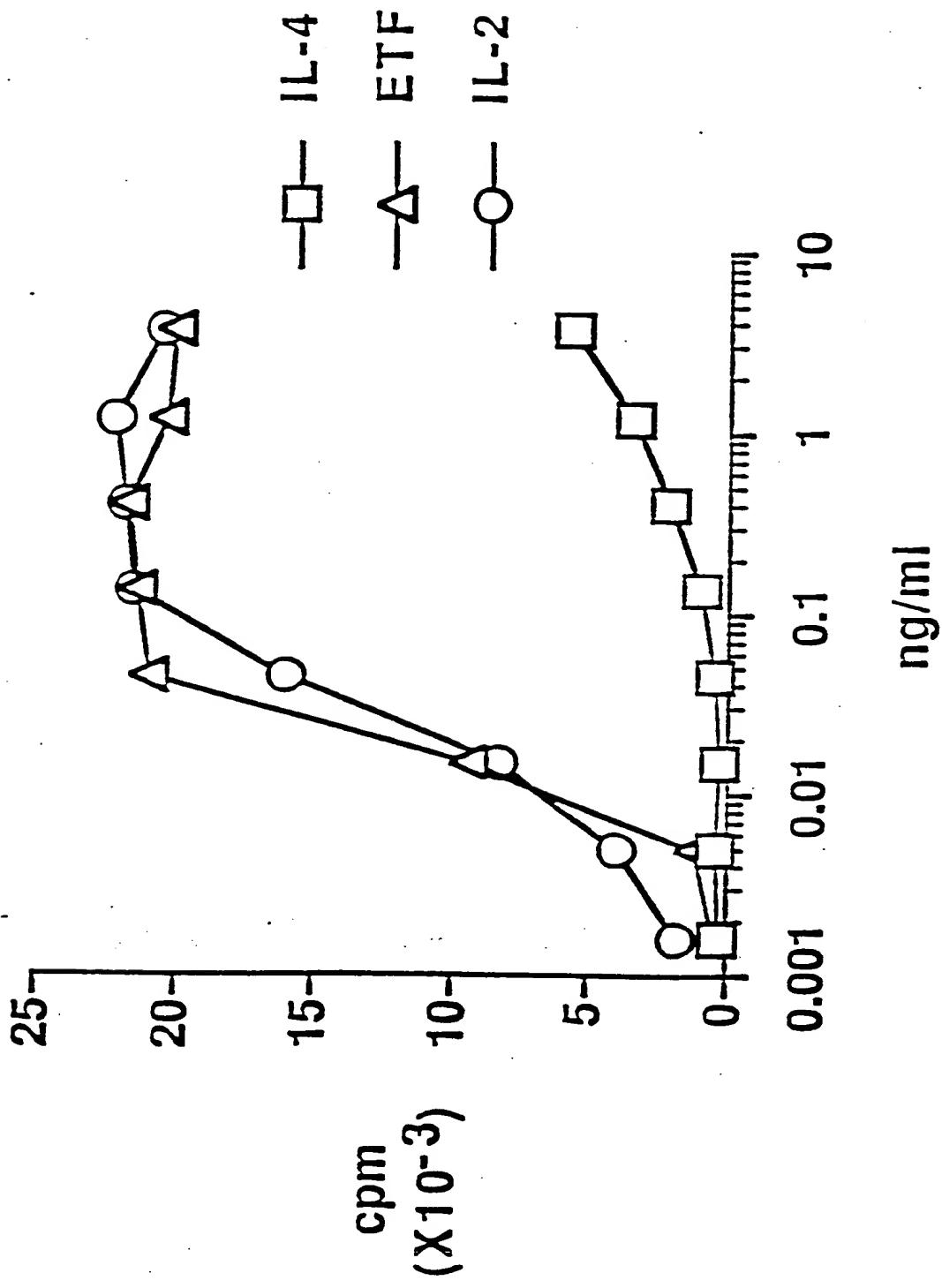
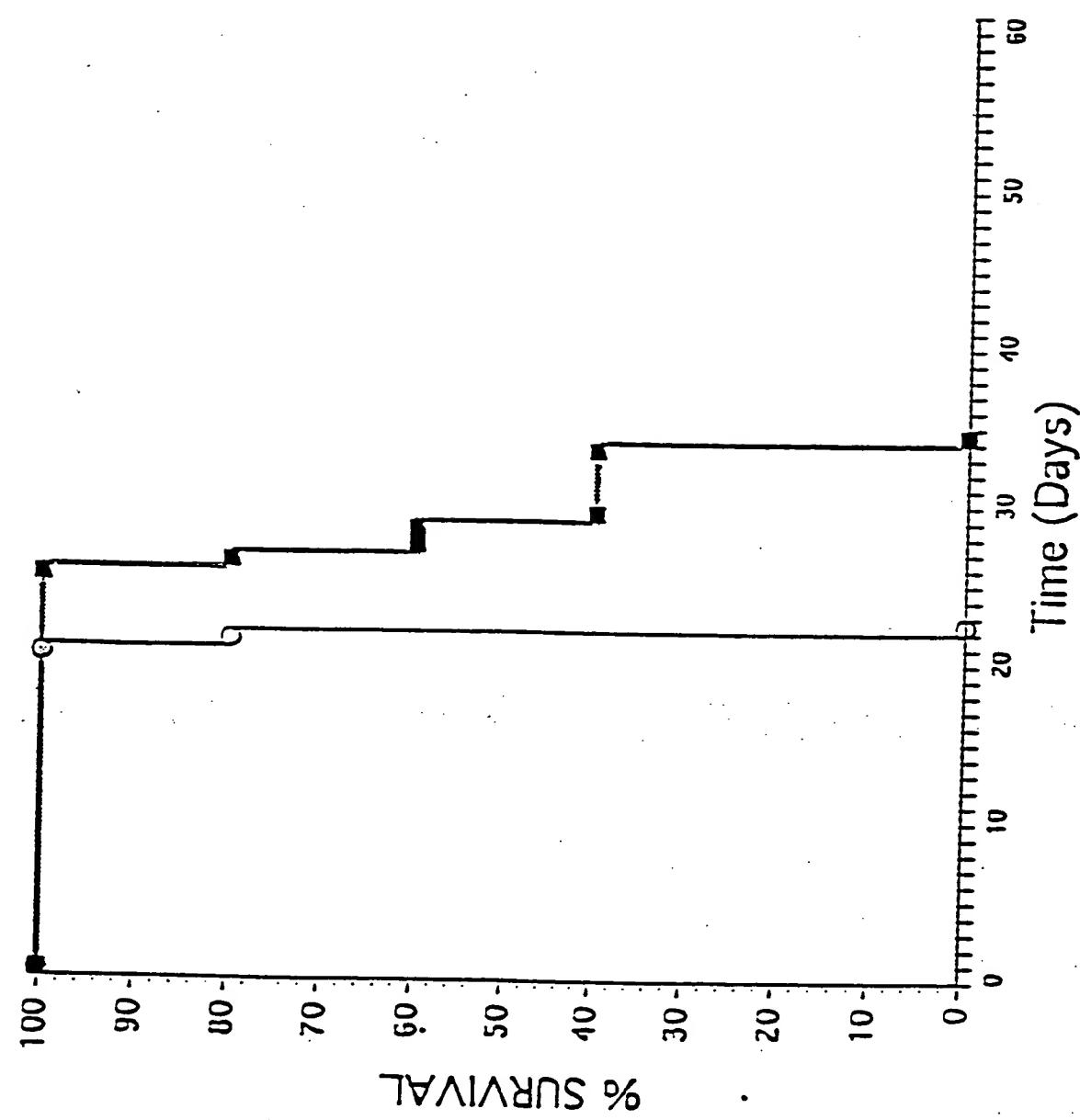


FIGURE 7



-○- Control

-■- 16  $\mu$ g/day

FIGURE 8

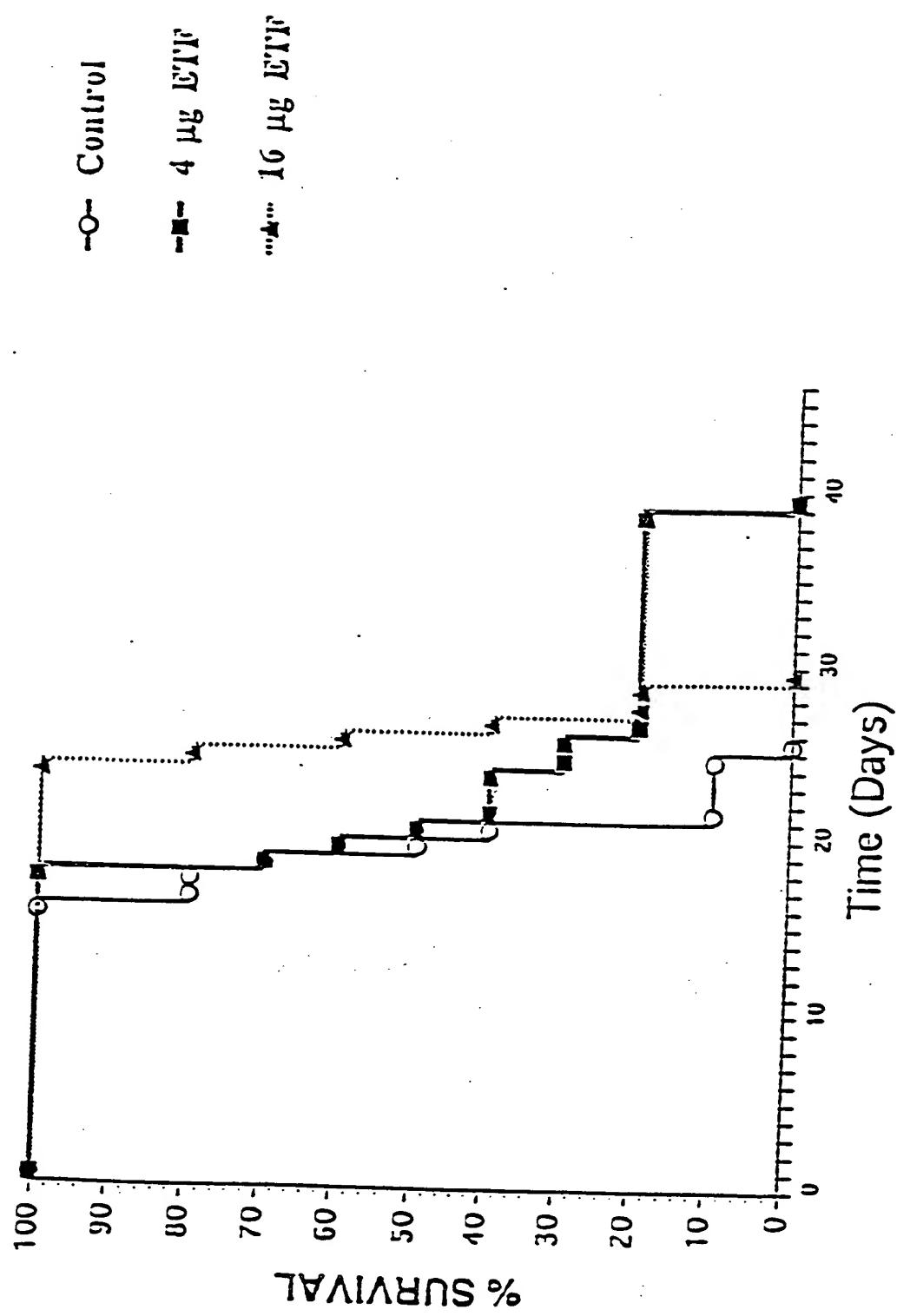


FIGURE 9

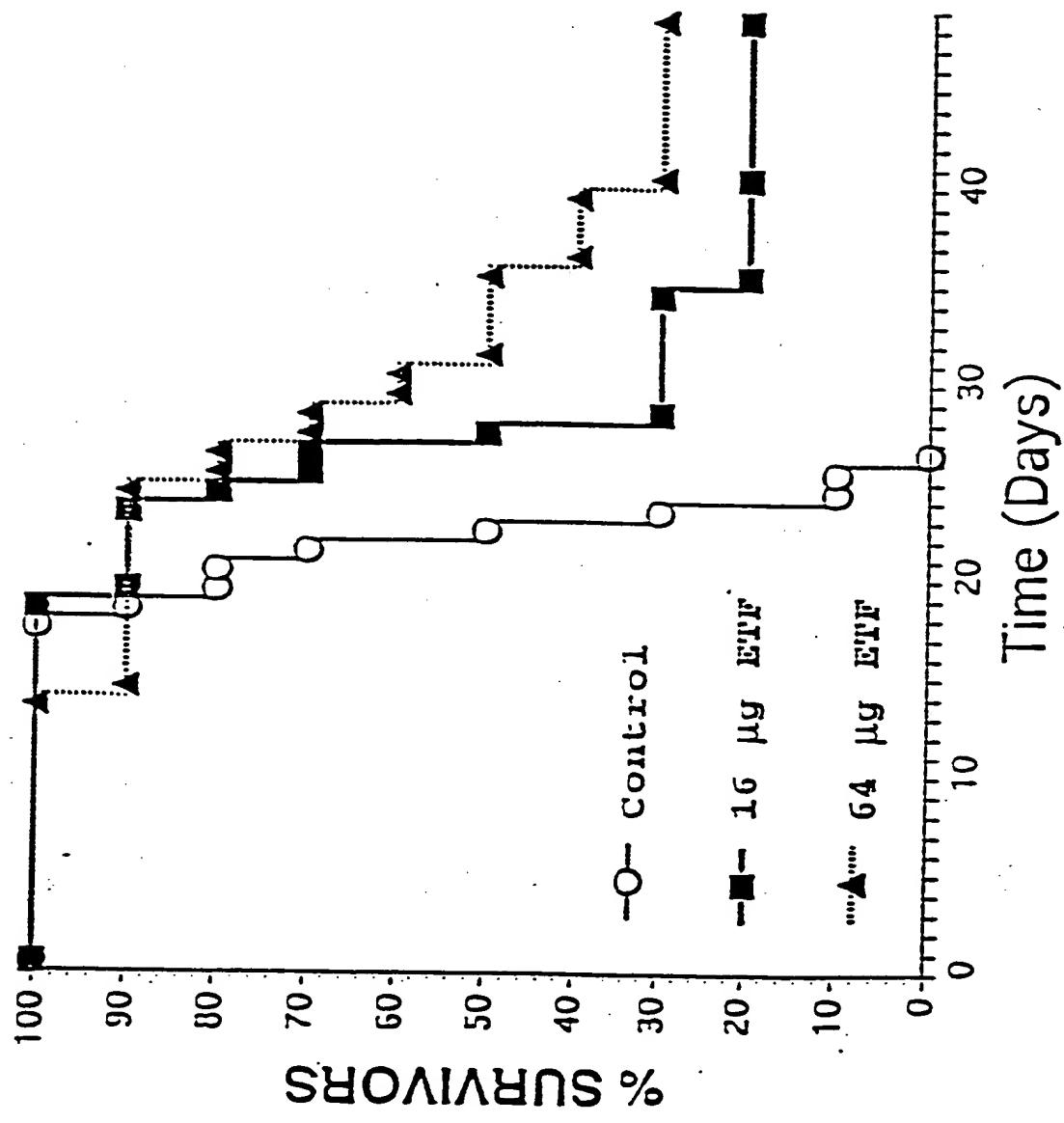


FIGURE 10

